

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. – 40. (Cancelled)

41. (Previously Presented) A system of light units each having one of a plurality of predetermined light emission properties for illuminating a space, each light unit comprising:

a support structure comprising a smooth and uninterrupted light permeable plate;
at least one hollow light guide with a cavity;
at least one lamp for directing light into the cavity;
optical components carried by said support structure, said components having light directing properties for influencing the beam path of the light output from the lamp;
at least one of said optical components being a light permeable component having a medium with a first index of refraction and having a boundary surface with a medium of a second index of refraction different from the first, said light permeable component being part of a light output device and said boundary surface being provided with a non-planar light-refractive structure for deflecting light in at least one plane directed perpendicular to a light exit face, so that the light intensity distribution curve of the light

emerging at the light exit face is influenced in this plane;

at least one of said optical components of each light unit being an element selected from the group consisting of a plurality of cap reflectors having optical properties differing from the others, a plurality of non-planar light-refractive structures having optical properties differing from the others and a plurality of input reflectors having optical properties differing from the others, said element being carried by said support whereby the one or more optical components carried by said support structure determine said one of a plurality of predetermined light emission properties of said light units.

42. (Previously Presented) A system according to claim 41, wherein the support structure of each light unit of the system has the same dimensions for receiving the element.

43. (Previously Presented) A system according to claim 41, wherein the element is a reflector selected from the group consisting of a totally reflective cap reflector and a partially light-transmissive cap reflector, so that the light unit can be changed between a direct lighting unit and a lighting unit with some indirect lighting.

44. (Previously Presented) A system according to claim 41, wherein the selected element is a cap reflector having reflecting properties that affect the light emission properties of the light unit.

45. (Previously Presented) A system according to claim 41, wherein the light permeable component comprises one or more plate elements having non-planar light refractive structures that affect the light emission properties of the light unit.

46. (Previously Presented) A system according to claim 45, wherein the non-planar light refractive structure of the plate element essentially prevents a light emission above a limited angle relative to the perpendicular vis-à-vis light exit face in at least one plane perpendicular to the light exit face so that the shielding of light emerging at the light exit face is produced in this plane.

47. (Previously Presented) A system according to claim 45, wherein the plate elements rest on the smooth and uninterrupted light permeable plate.

48. (Previously Presented) A system according to claim 47, wherein the plate element is held onto the light permeable plate by at least one frame element.

49. (Previously Presented) A system according to claim 47, wherein at least two plate elements separated by a spacer element rest on the light permeable plate.

50. (Previously Presented) A system according to claim 41, wherein the support structure of a group of light units of the system has the same dimensions and the light emission properties are different according to the optical properties of at least one of said optical components being mounted on the support structure.

51. (Previously Presented) A system according to claim 41, wherein the

selected element is an input reflector having reflecting properties and dimensions that affect the light emission properties of the unit.

52. (Previously Presented) A system according to claim 51, wherein one of the input reflectors completely reflects light into the hollow light guide and another input reflector directs part of the light to bypass the hollow light guide to provide indirect lighting.

53. (Previously Presented) A system according to claim 41, which has at least two light permeable components with the non-planar light refractive structure, said two light permeable components being arranged in a stack to create a shielding effect at least in two directions perpendicular to each other.

54. (Previously Presented) A system according to claim 41, wherein, for a group of light units, the light output face by which light is coupled out from the hollow light guide, is different for at least two different light units of said group, said light permeable component is a plate element and the support structure of each said light units of said group has the same dimensions for receiving said plate element.

55. (Previously Presented) A system according to claim 41, wherein the light units are lighting units for illuminating an indoor space.

56. (Previously Presented) A system of light units, each having one of a plurality of predetermined light emission properties for illuminating an indoor space, each light unit comprising:

a support structure having a smooth and uninterrupted light permeable plate;

at least one hollow light guide with a cavity;

at least one lamp for directing light into the cavity;

one or more optical components carried by said light permeable plate, said optical components having light directing properties for influencing the beam path of the light output from the lamp;

at least one of said optical components being a light permeable element having a medium with a first index of refraction and having a boundary surface with a medium of a second index of refraction different from the first, said light permeable element being received on the light permeable plate of a light output device of the unit, and said boundary surface being provided with a non-planar light-refractive structure for deflecting light in at least one plane directed perpendicular to a light exit face of the output device so that the light intensity distribution curve of the light emerging at the light exit face is influenced in this plane; and

a cap reflector mounted on said structure to reflect light in the light guide through the light permeable element,

at least one of said components being an element that is dimensioned so that it can be used in any one of the light units of the system.

57. (Previously Presented) A system according to claim 56, wherein the cap reflector is selected from the group consisting of a total reflective cap reflector and a partially light-transmissive cap reflector, so that the light unit can be changed between a direct lighting unit and a lighting unit with some indirect lighting.

58. (Previously Presented) A system according to claim 56, wherein the light permeable element is a plate element which is secured to the light permeable plate of the support structure.

59. (Previously Presented) A system according to claim 56, wherein the light permeable elements are plate elements positioned on the light permeable plate with a spacer element disposed between adjacent plate elements and secured to the light permeable plate.

60. (Previously Presented) A system according to claim 56, which has at least two light permeable elements, said two light permeable elements being plate elements with the non-planar light refractive structure, said two plate elements being arranged in a stack on the light permeable plate to create a shielding effect in two directions perpendicular to each other.

61. (Previously Presented) A system according to claim 56, wherein the light unit includes a light permeable plate and the at least one optical component is a plate element held onto the light permeable plate by at least one frame element.

62. (Previously Presented) A system according to claim 56, wherein the first-mentioned element component can be replaced by a second element of the same dimensions and different properties, so that by replacing the first element with the second element, the light unit will have different light emission properties.

63. (Cancelled)

64. (Cancelled)

65. (Cancelled)

66. (Previously Presented) A method for manufacturing a light unit comprising a support structure, at least one hollow light guide with a cavity, at least one lamp for directing light into the cavity, optical components having light directing properties for influencing the beam path of the light output from the lamp, at least one of said optical components being a light permeable component having a medium with a first index of refraction and having a boundary surface with a medium of a second index of refraction, which is different from the first, said light permeable component being part of a light output device of the unit and said boundary surface being provided with a light-refractive structure for deflecting light in at least one plane directed perpendicular to a light exit face of the output device so that the light intensity distribution curve of the light

emerging at said light exit face is influenced in this plane, said light permeable component being a pre-fabricated light permeable component with predetermined dimensions, the method comprising the steps of:

providing said pre-fabricated light permeable component;
providing a light permeable carrier plate having a generally surface;
arranging at least one pre-fabricated light permeable component on said carrier plate in a predetermined area of said carrier plate; and;
fastening said pre-fabricated light permeable component and said carrier plate so that they limit the cavity of the hollow light guide wherein said carrier plate forms the outermost element of the light output device through which the light is output for illuminating a space;

wherein the step of arranging positions the pre-fabricated light permeable component on the carrier plate, the space adjacent the pre-fabricated light permeable component remains uncovered by said component, said uncovered region having an area smaller than the area of the carrier plate covered by said component; and, wherein the step of arranging will position at least two pre-fabricated light permeable components on the carrier plate with an uncovered region there between and positioning a spacer element in the uncovered region.

67. (Cancelled)

68. (Cancelled)

69. (Previously Presented) A lighting unit comprising:

a support structure;

a light guide forming a cavity;

a lamp for directing light into said cavity;

a carrier plate carried by said support structure and defining a generally smooth and uninterrupted light emitting surface of said cavity through which light is output having one of a plurality of predetermined light emission properties for illuminating a space; and

an optical component carried by said carrier plate, said optical component having a light-refractive structure and being formed by one or more light permeable elements wherein said carrier plate forms the outermost element of the light output device through which the light is output for illuminating a space.

70. (Previously Presented) A lighting unit comprising:

a support structure;

a light guide forming a cavity;

a lamp for directing light into said cavity;

a carrier plate carried by said support structure and defining a light emitting surface of said cavity; and

an optical component carried by said carrier plate formed by two or more light permeable elements positioned side-by-side, adjacent light permeable elements being separated by a spacer element.

71.-74. (Cancelled)

75. (Previously Presented) The system of Claim 56 wherein said cap reflector is an element that is dimensioned so that it can be used in any one of the light units of the system.

76.-78. (Cancelled)

79. (Previously Presented) The system of Claim 41 wherein the at least one lamp is located outside of said cavity or at the lateral periphery thereof.

80. (Previously Presented) The system of Claim 56 wherein the at least one lamp is located outside of said cavity or at the lateral periphery thereof.

81. (Previously Presented) The system of Claim 69 wherein the lamp is located outside of said cavity or at the lateral periphery thereof.

82. Cancelled.

83. (Previously Presented) The system of Claim 70 wherein the lamp is located outside of said cavity or at the lateral periphery thereof.